PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: BRIAN W. POOR TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO, CA 94111	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of Mailing (day/month/year) 30 OCT 2003			
Applicant's or agent's file reference 20093-28-1PC	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US03/19428	International filing date (day/month/year) 19 June 2003 (19.06.2003)			
Applicant NORTHWEST BIOTHERAPEUTICS, INC.				
1. The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):				
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.				
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No	Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35			
For more detailed instructions, see the notes on the a	accompanying sheet.			
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) addit	ional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
	In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/US	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Joseph W. Drodge Stry Coll			

Alexandria, Virginia 22313-1450
Facsimile No. (703)305-3230
Form PCT/ISA/220 (April 2002)

See notes on accompanying sheet)

Telephone No. 703-308-0661

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	licant's or agen 93-28-1PC	t's file reference	FOR FURTHER ACTION	1	cation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, ow.			
	rnational applica VUS03/19428	ation No.	International filing date (day/mont 19 June 2003 (19.06.2003)		(Earliest) Priority Date (day/month/year) 19 June 2002 (19.06.2002)			
	Applicant NORTHWEST BIOTHERAPEUTICS, INC. /							
This	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
This	This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.							
1.	 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 							
	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
	contai	ned in the international	application in written form.					
	filed t	ogether with the intern	ational application in computer read	able form.				
	furnis	hed subsequently to thi	s Authority in written form.					
	furnis	hed subsequently to thi	s Authority in computer readable fo	rm.				
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		tement that the information in the information is the information in t	ation recorded in computer readable	form is id	entical to the written sequence listing has			
2.	Certa	in claims were found	unsearchable (See Box I).					
3.		of invention is lacking	g (See Box II).					
4.	With regard to							
		tt is approved as submi	•					
	the tex	tt has been established	by this Authority to read as follows	:				
5.	With regard to	the abstract,						
	the ter	t is approved as submi	tted by the applicant.					
	the text has been established within one month from the		according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, ate of mailing of this international search report, submit comments to this Authority.					
6.	The figure of t	he drawings to be publ	ished with the abstract is Figure No	o. <u>1</u>				
M		None of the figures						
	becaus	se the applicant failed to	o suggest a figure.					
	becaus	e this figure better cha	racterizes the invention.		1			

Form PCT/ISA/210 (first sheet) (July 1998)



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19428

Box III TEXT OF THE ABSTRACT	(Continuation of Item 5 of the first sheet)
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT:

The present invention provides tangential flow filtration devices and methods for enriching a heterogenoeous mixture of blood constitutents for leukocytes by removal of non-leukocyte blood constituents. In one particular embodiment the device can provide a composition enriched in monocytes. One embodiment includes a remover unit (1) having a crossflow chamber (3) separated by a microporous filter (5) from a filtrate chamber (4), the remover unit (1) also having a tangential flow inlet (6), a fluid outlet (7) for a fluid enriched in leukocytes and a filtrate outlet (8).

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT	PC1/US03/19428
Continuation of B. FIELDS SEARCHED Item 1: 210/650,195.1,195.2,198.1,257.2,259,321.6,321.65,321.75,321.84,639,641,651,7435/372	
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Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19428

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B01D 61/14						
US CL	: 210/650					
	International Patent Classification (IPC) or to both na	tional classification and IPC				
B. FIEL	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: Please See Continuation Sheet						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
	UMENTS CONSIDERED TO BE RELEVANT	-				
Category *	Citation of document, with indication, where a	opropriate, of the relevant pass	ages Relevant to claim No.			
Y,P	US 6,497,821 B1 (BELLAMY JR. et al) 24 Decemb	er 2002, see entire document	1-69			
Y	US 6,398,956 B1 (COVILLE et al) 04 June 2002, se	e entire document	1-69			
Y	US 6,194,204 B1 (CRAWFORD et al) 27 February	12-22,36-39 and 50-69				
Y	US 5,695,653 A (GSELL et al) 09 December 1997,	see entire document	1-69			
Y	US.5,690,815 A (KRASNOFF et al) 25 November 1997, see entire document		1-69			
Y	US 4,420,398 A (CASTINO et al) 13 December 1983, see entire document					
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$\overline{\Box}$						
Further	documents are listed in the continuation of Box C.	See patent family ar	mex.			
* S ₁	pecial categories of cited documents:	"T" later document published	after the international filing date or priority			
	defining the general state of the art which is not considered to be	date and not in conflict v principle or theory under	with the application but cited to understand the rlying the invention			
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular re considered novel or carr when the document is tal	elevance; the claimed invention cannot be not be considered to involve an inventive step			
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as		elevance; the claimed invention cannot be			
specified)		considered to involve an combined with one or m	inventive step when the document is note other such documents, such combination			
	referring to an oral disclosure, use, exhibition or other means	being obvious to a perso	n skilled in the art			
	published prior to the international filing date but later than the ate claimed	"&" document member of the				
	ctual completion of the international search	Date of mailing of the international search report				
	003 (09.10.2003)	30 OCT 2003				
	ailing address of the ISA/US	Authorized officer				
	il Stop PCT, Attn: ISA/US nmissioner for Patents	Joseph W. Drodge Mufffllle				
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